

RJ100F5HX**
AJ100FCJ5**

Air Conditioner installation manual

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SAMSUNG

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Safety precautions

(Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.)



WARNING

- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the air conditioner is not installed in an easily accessible area.

GENERAL INFORMATION

- ◆ Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- ◆ For maximum safety, installers should always carefully read the following warnings.
- ◆ Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- ◆ This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- ◆ The air conditioner is compliant with the requirements of the Low Voltage Directive (72/23/EEC), the EMC Directive (89/336/EEC), and the Directive on pressurized equipment (97/23/EEC).
- ◆ The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and hydraulic lines. Failure to comply with these instructions or to comply with the requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- ◆ The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- ◆ Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.

Safety precautions

GENERAL INFORMATION

- ◆ In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- ◆ Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- ◆ The unit contains moving parts, which should always be kept out of the reach of children.
- ◆ Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- ◆ Do not place containers with liquids or other objects on the unit.
- ◆ All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- ◆ The packing material and exhaust batteries of the remote control (optional) must be disposed of in accordance with current laws.
- ◆ The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

INSTALLING THE UNIT

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines. Always disassemble the electric lines before the refrigerant tubes.

- ◆ Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)
- ◆ After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- ◆ Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- ◆ To prevent injury when accidentally touching the indoor unit fan, install the indoor unit at least 2.5m above the floor.
- ◆ The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- ◆ Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.











POWER SUPPLY LINE, FUSE OR CIRCUIT BREAKER

- ◆ Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- ◆ Always verify that a suitable grounding connection is available.
- ◆ Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- ◆ Always verify that the cut-off and protection switches are suitably dimensioned.
- ◆ Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
- ◆ Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of air conditioners.

Accessories

The following accessories are supplied with the air conditioner.

Accessories in the outdoor unit case

3-wire Power Cable (option) 	2-wire Assembly Cable (option) 	Drain Plug 	Installation Manual 	Rubber Leg 
Flare Nuts, 15.88mm outer pipe diameter 	Flare Nuts, 9.52mm outer pipe diameter 	Tube connector (Pipe 12.70mm; Bolt 9.52mm) 	Tube connector (Pipe 12.70mm; Bolt 15.88mm) 	Energy Label 

※ Attach Energy Label to the outdoor unit properly when installing.

≫ The 3-wire power cable and the 2-wire assembly cable are optional. If these cables are not supplied, use the standard cable approved by IEC standard.

Please, check "Method for connecting wires" section.

Deciding on where to install the air conditioner

When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.

General

Do NOT install the air conditioner in a location where it will come into contact with the following elements :

- ◆ Combustible gases
- ◆ Saline air
- ◆ Machine oil
- ◆ Sulphide gas
- ◆ Special environmental conditions
- ◆ The air conditioner should be used only for the applications for which it has been designed : the indoor unit is not suitable to be installed in areas used for laundry. If you must install the unit in such conditions, first consult your dealer.

Outdoor Unit

- ◆ The outdoor unit must NEVER be placed on its side or upside down, as the compressor lubrication oil will run into the cooling circuit and seriously damage the unit.
- ◆ Choose a location that is dry and sunny, but not exposed to direct sunlight or strong winds.
- ◆ Do not block any passageways or thoroughfares.
- ◆ Choose a location where the noise of the air conditioner when running and the discharged air do not disturb any neighbours.
- ◆ Choose a position that enables the piping and cables to be easily connected to the indoor unit and the recommended length will be respected.
- ◆ Install the outdoor unit on a flat, stable surface that can support its weight and does not generate any unnecessary noise and vibration.
- ◆ Position the outdoor unit so that the air flow is directed towards the outside, as indicated by the arrows on the top of the unit.
- ◆ Maintain sufficient clearance around the outdoor unit, as indicated in page 8.
- ◆ Make sure that the water dripping from the drain hose runs away correctly and safely.

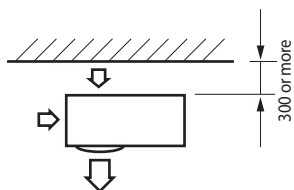


CAUTION

- ◆ You have just purchased a Free Joint Multi air conditioner and it has been installed by your installation specialist.
- ◆ This device must be installed according to the national electrical rules.
- ◆ Max input power & current is measured according to IEC standard and input power & current is measured according to ISO standard.
- ◆ More than 2 indoor units should be installed when you use Free Joint Multi air conditioner.
- ◆ Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs.
The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.
- ◆ With an outdoor unit having net weight upper than 60kg, we suggest do not install it suspended on wall, but considering floor standing one.

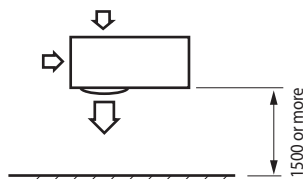
Space requirement for outdoor unit

When installing 1 outdoor unit

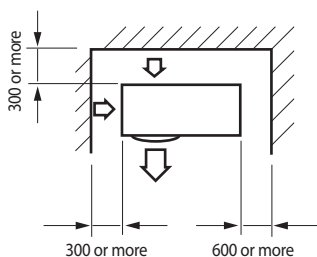


※ When the air outlet is opposite the wall

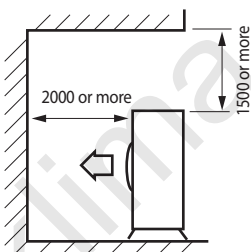
(Unit : mm)



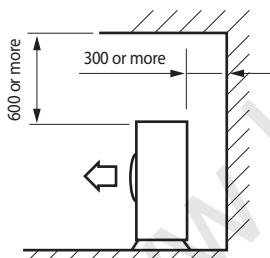
※ When the air outlet is towards the wall



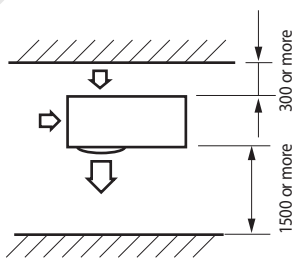
※ When 3 sides of the outdoor unit are blocked by the wall



※ The upper part of the outdoor unit and the air outlet is towards the wall



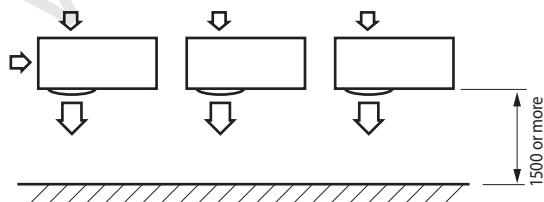
※ The upper part of the outdoor unit and the air outlet is opposite the wall



※ When front and rear side of the outdoor unit is towards the wall

When installing more than 1 outdoor unit

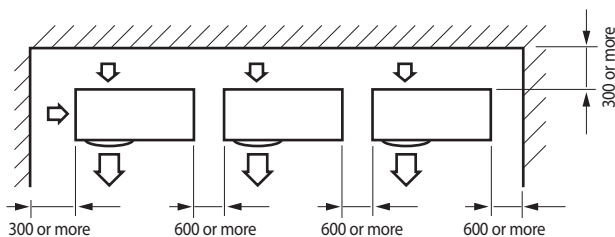
(Unit : mm)



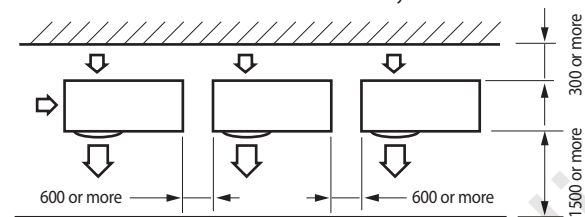
※ When the air outlet is towards the wall

When installing more than 1 outdoor unit

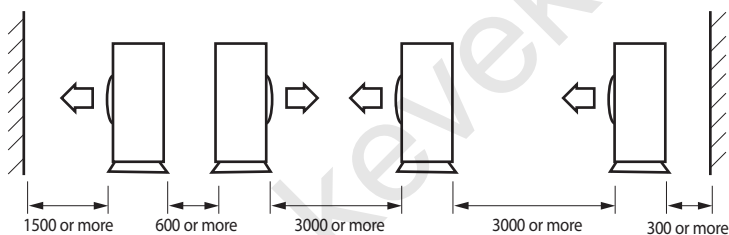
(Unit : mm)



※ When 3 sides of the outdoor unit are blocked by the wall



※ When front and rear side of the outdoor unit is towards the wall



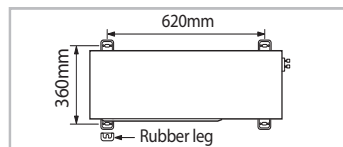
※ When front and rear side of the outdoor unit is towards the wall

Fixing the unit in position

The outdoor unit must be installed on a rigid and stable base to avoid any increase in the noise level and vibration, particularly if the outdoor unit is to be installed close to a neighbour.

If it is to be installed in a location exposed to strong winds or at a height, the unit must be fixed to an appropriate support (wall or ground).

1. Position the outdoor unit so that the air flow is directed towards the outside, as indicated by the arrows on the top of the unit.
 2. Attach the outdoor unit to the appropriate support using anchor bolts.
 - ◆ The earthing wire for the telephone line cannot be used to earth the air conditioner.
 3. If the outdoor unit is exposed to strong winds, install shield plates around the outdoor unit, so that the fan can operate correctly.
- Certainly fix up its rubber leg in order to prevent its vibration and noise.

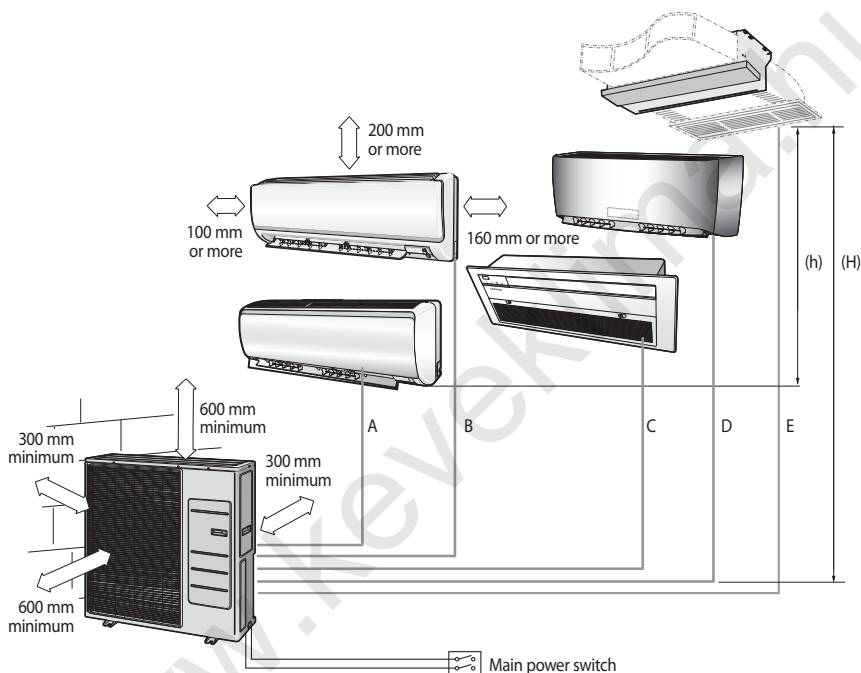


Indoor/outdoor unit installation drawings

◆ Piping outside diameter

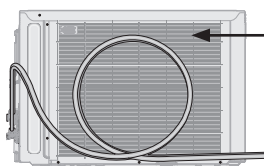
Indoor unit	Outdoor unit	Power supply ϕ , V, Hz
020/023/026/ 030/035/052/ 07/09/12/18/24	RJ100F5HX** AJ100FCJ5**	1,220-240,50/60

Unit	Outside diameter	
	Liquid	Gas
020/023/026/ 030/035/07/09/12	1/4"	3/8"
052/18		1/2"
24		5/8"



◆ Piping length and the height

	1 Room max length	5 Room total max length	Max height between indoor unit & outdoor unit	Max height between indoor units
Dimension	25m	80m	15m	7.5m
Composition	A, B, C, D, E	A+B+C+D+E	(H)	(h)



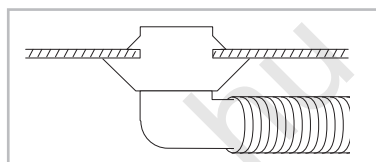
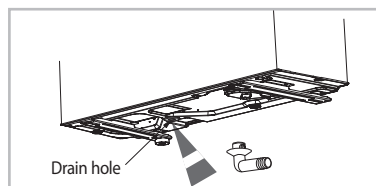
※ The appearance of the unit may be different from the diagram depending on the model.

Refrigerant piping work

Installing drain hose

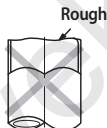
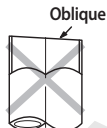
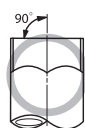
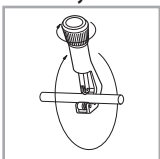
While heating, ice may accumulate. During the process of defrosting, check if condensation draining is adequate. For adequate draining, do the following :

1. Insert the drain plug into the drain hole on the underside of the outdoor unit.
2. Connect the drain hose to the drain plug.
3. Ensure that condensation draining is adequate.

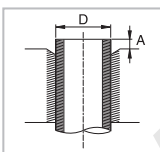


Cutting/extending the piping

1. Make sure that you have the required tools available (pipe cutter, reamer, flaring tool and pipe holder).
2. If you wish to shorten the piping, cut it using a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe, and referring to the illustrations below for examples of edges cut correctly and incorrectly.

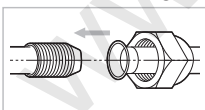


3. To prevent any gas from leaking out, remove all burrs at the cut end of the pipe, using a reamer.
4. Slide a flare nut on to the pipe and modify the flare.



Outer Diameter (D)	Thickness	Depth (A)
ø6.35 mm (1/4")	0.8mm	1.3 mm
ø9.52 mm (3/8")	0.8mm	1.8 mm
ø12.70 mm (1/2")	0.8mm	2.0 mm
ø15.88 mm (5/8")	0.8mm	2.2 mm

5. Check that the flaring is correct, referring to the illustrations below for examples of incorrect flaring.



6. Align the pipes to be connected and tighten the flare nuts first manually and then with a torque wrench, applying the following torque.

Outer Diameter (D)	Thickness	Torque (kgf-cm)
ø6.35 mm (1/4")	0.8mm	140~170
ø9.52 mm (3/8")	0.8mm	250~280
ø12.70 mm (1/2")	0.8mm	380~420
ø15.88 mm (5/8")	0.8mm	440~480

7. For further details on how to connect up to the outdoor unit and purge the circuit, refer to page 10.

➤ In case welding the pipe, the gas nitrogen must be blown into the parts.

Refrigerant piping work

Connecting refrigerant pipe

RJ100F5HX** / AJ100FCJ5**

Follow different orders depending on the capacity of indoor units.

016/020/023/026/030/035/AQV07/09/12**/AR07/09/12**

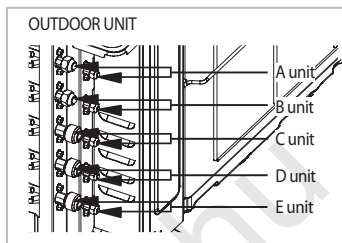
◆ Install pipes between indoor and outdoor units orderly as [A→B→C→D→E].

052/AQV18/24**/AR18/24**

◆ Install pipes between indoor and outdoor units orderly as [C→D→E].

Port	Indoor unit
A	**020/023/026/030/035/07/09/12**
B	**020/023/026/030/035/07/09/12**
C	**020/023/026/030/035/07/09/12** ¹⁾
D	**052/18**
E	**24** ²⁾

- 1) Use tube connector (pipe 12.70mm, bolt 9.52mm)
- 2) Use tube connector (pipe 12.70mm, bolt 15.88mm)



Purging air and checking gas leakage

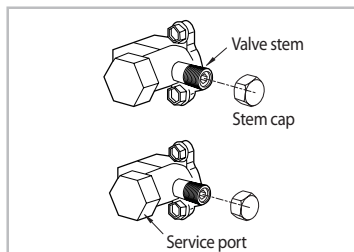
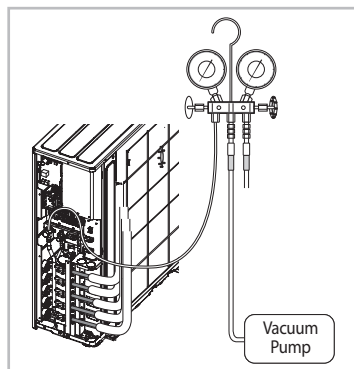
Purging air

- 1 Check the piping connections.
- 2 Connect the charging hose of low pressure side of manifold gauge to the packed valve having a service port (5/8" Packed valve) as shown at the figure (Value stem: 1/2" - 20UNF).



◆ Make the electrical connection and leave the system into "stand by mode". Do not turn on the system! This is necessary for better vacuum operation (full OPEN position of Electronic Expansion Valve - EEV-).

- 3 Open the valve of the low pressure side of manifold gauge counter clockwise.
- 4 Purge the air from the system using vacuum pump for about 30 minutes.
 - Close the valve of the low pressure side of manifold gauge clockwise.
 - Make sure that pressure gauge show -0.1MPa(-76cmHg) after about 30 minutes. This procedure is very important in order to avoid gas leak.
 - Turn off the vacuum pump.
 - Remove the hose of the low pressure side of manifold gauge.
- 5 Set valve cork of both liquid side and gas side of packed valve to the open position.
- 6 Mount the valve stem nuts and the service port cap to the valve, and tighten them at the torque of 183kgf·cm with a torque wrench.
- 7 Check for gas leakage.
 - At this time, especially check for gas leakage from the 3-way valve's stem nuts, and from the service port cap.



Checking gas leakage

Before completing the installation (insulation of the cables, hose and piping and fixing of the indoor unit to the installation plate), you must check that there are no gas leaks.

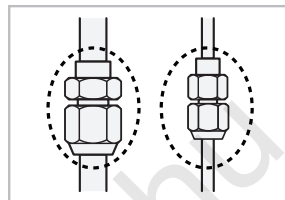
LEAK TEST WITH NITROGEN (before opening valves)

In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R-410A, it's responsible of installer to pressurize the whole system with nitrogen (using a cylinder with pressure reducer) at a pressure above 30 bar (gauge).

LEAK TEST WITH R-410A (after opening valves)

Before opening valves, discharge all the nitrogen into the system and create vacuum according to page 10.

After opening valves, check leaks using a leak detector for refrigerant.



Important information regarding the refrigerant use

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

CAUTION :

Inform user if system contains 3 kg or more of fluorinated greenhouse gases. In this case, it has to be checked for leakage at least once every 12 months, according to regulation N°842/2006. This activity has to be covered by qualified personnel only.

In case situation above (3 kg or more of R-410A), installer (or recognised person which has responsibility for final check) has to provide a maintenance book, with all the information recorded according to REGULATION (EC) N°842/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on certain fluorinated greenhouse gases.

Please fill in with indelible ink,

- ① the factory refrigerant charge of the product,
 - ② the additional refrigerant amount charged in the field and
 - ①+② the total refrigerant charge.
- on the refrigerant charge label supplied with the product.



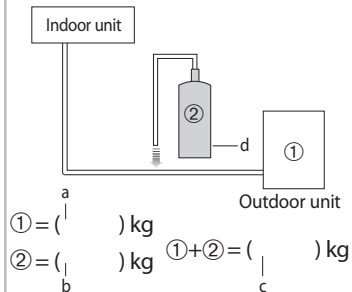
- a. Factory refrigerant charge of the product: see unit name plate
- b. Additional refrigerant amount charged in the field (Refer to the above information for the quantity of refrigerant replenishment.)
- c. Total refrigerant charge
- d. Refrigerant cylinder and manifold for charging

➤ The filled-out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).

Refrigerant type	GWP value
R410A	1975

※ GWP=Global Warming Potential

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.



Charging additional refrigerant

If you install the excessive length of pipe, add additional refrigerant as 20g per unit meter ; refer to the table below.

Refer to the Service Manual for more details on this operation.

Model	Total connecting pipe length (L)	Adding refrigerant
RJ100F5HX**	LT≤40m	Chargeless
AJ100FCJ5**	LT>40m	(LT- 40m)x20g

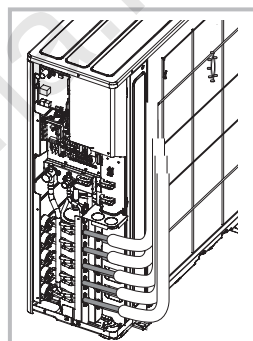
Pump down operation

PUMP DOWN (before disconnecting the refrigerant connections for unit repair, removal or disposal)

Pump-down is an operation intended to collect all the system refrigerant in the outdoor unit. This operation must be carried out before disconnecting the refrigerant pipe in order to avoid refrigerant loss to the atmosphere.

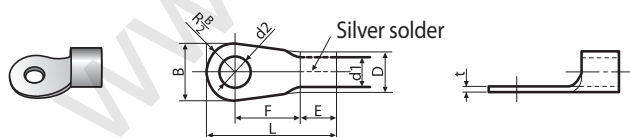
1. Shut off all the liquid valve with the Allen wrench.
2. Turn the system on in cooling with fan operating at high velocity.
(Compressor will immediately start, provided 3 minutes have elapsed since the last stop).
3. After 2 minutes of operation, shut off the suction valves with the allen wrench.
4. Turn the system off and switch mains supply off.
5. Disconnect pipes. After disconnection, protect valves and tubing ends from dust.
6. Compressor damage may occur if run at a negative suction pressure.

※ The designs and shape are subject to change according to the model.



Method for connecting wires

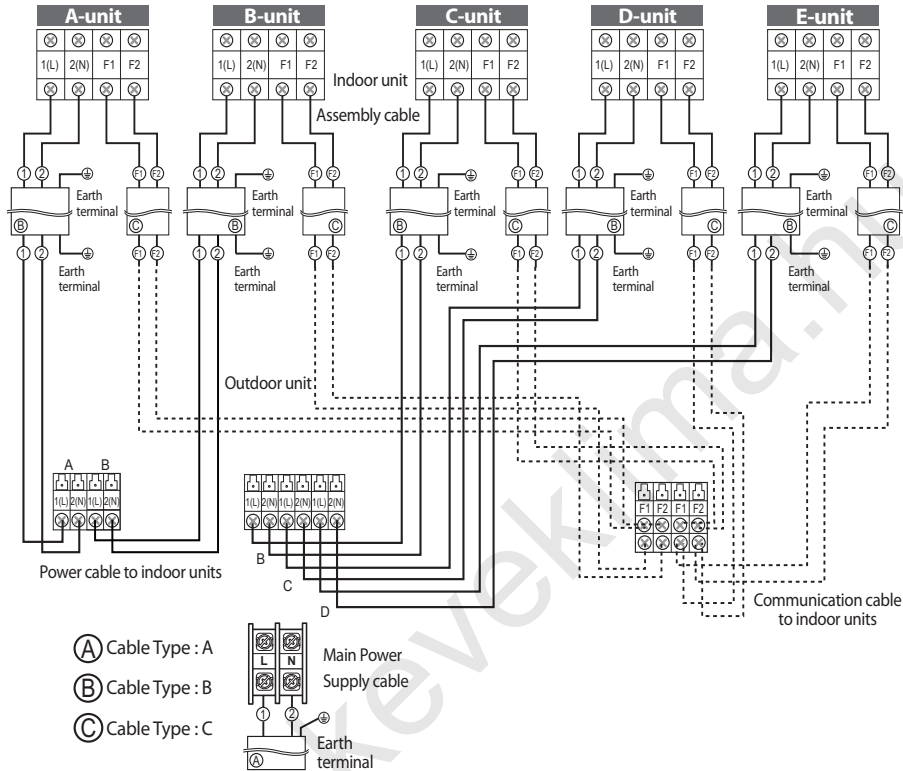
Selecting wires size



Nominal dimensions for cable (mm²)	Nominal dimensions for screw (mm)	B		D		d1		E		F	L	d2		t
		Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min.	Min.	Max.		Standard dimension (mm)	Allowance (mm)	Min.
0.75~1.5	4	6.6	±0.2	3.4	+0.3 -0.2	1.7	±0.2	4.1	6	16		4.3	±0.20	0.7
4	4	8.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20		4.3	±0.20	0.9
	4	9.5												

Method for connecting wires

Connecting wires



Specification for circuit breaker and power supply cord

- Power supply cord is not supplied with air conditioner.
- Select the power supply cord in accordance with relevant local and national regulations.
- Wire size must comply with the applicable local and national code.
- Specifications for local wiring power supply cord and branch wiring are in compliance with local cord.

Model		Outdoor Units		Maximum Input Current [A]			Power Supply	
Outdoor Unit	Indoor Unit	Hz	Volts	Outdoor	Indoor(Max.)	Total	MCA	MFA
RJ100F5HX** AJ100FCJ5**	5 ROOM	50	1phase, 220-240	23.0	3.2	26.2	26.2	28.8

Notes

1. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC:H05RN-F)
2. Select power supply cord based on MCA.
3. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).
4. MCA represents maximum input current.
5. MFA represents capacity which may accept MCA.
6. Communication Cable Specification: 2G. 0.75mm² or more.

Abbreviations

- MCA : Min. Circuit Amps. (A)
- MFA : Max. Fuse Amps. (A)

Tightening power terminal

- Connect the cables to the terminal board using the compressed ring terminal.
- Use rated cables only.
- Connect the cables with driver and wrench that can apply the rated torque to the screws.
- Make sure that appropriate tightening torque is applied for cable connection. If the terminal is loose, arc heat may occur and cause fire and if the terminal is connected too firmly, terminal may get damaged.

Screw	Tighten Torque(kgf • cm)	Position
M4	12.0~15.0	1 (L), 2 (N), L, N, F1, F2

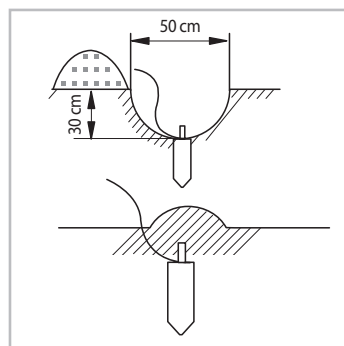
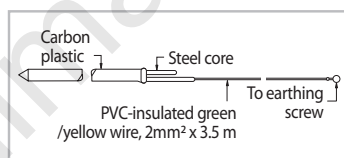
Method for connecting wires

Checking correct earthing

If the power distribution circuit does not have an earth or the earth does not comply with specifications, an earthing electrode must be installed. The corresponding accessories are not supplied with the air conditioner.

1. Select an earthing electrode that complies with the specifications given in the illustration opposite.
2. Determine a suitable location for the earthing electrode :
 - ◆ In damp hard soil rather than loose sandy or gravel soil that has a higher earthing resistance.
 - ◆ Away from underground structures or facilities, such as gas pipes, water pipes, telephone lines and underground cables.
 - ◆ At least two meters away from a lightning conductor earthing electrode and its cable.

➤ The earthing wire for the telephone line cannot be used to earth the air conditioner.
3. Dig a hole of the size indicated in the illustration opposite, drive the earthing electrode into position and cover the top of the electrode with the excavated soil.
4. Install a green/yellow insulated earthing wire (Ø1.6 mm, section 2 mm² or greater) :
 - ◆ If the earthing wire is too short, connect an extension lead, soldering the connection and wrapping it with insulating tape (Do not bury the soldered connection.)
 - ◆ Secure the earthing wire in position with staples. If the earthing electrode is installed in an area of heavy traffic, its wire must be connected securely.
5. Carefully check the installation, by measuring the earthing resistance with an earthing resistance tester. If the resistance is above the required level(Example:100Ω), drive the earthing electrode deeper into the ground or increase the number of earthing electrodes.
6. Connect the earthing wire to the earthing screw on the air conditioner.



Setting indoor unit address

Setting indoor unit address automatically

- ◆ Switch the system on and wait for code "E 99" to appear on the display of the external unit (this requires approximately 60 seconds **).
- ◆ As soon as code "E 99" displays, press once the red button (K1) shown on the figure on the side of the page :



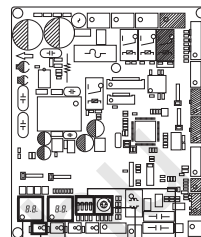
- ◆ Position DIP switch 1 to ON.
- ◆ If the quantity of indoor units connected is lower than maximum connectable to outdoor unit, the rotary switch SW01 has to be positioned to select a number equal to indoor units' quantity you connected.

- ◆ After the operations described above have been performed, the system starts in Cooling or Heating mode, depending on the external ambient temperature. After a few minutes (from a minimum of 3 to 5 minutes for the internal unit), the system stops automatically, completing the self-test and addressing procedure. "E 99" appears on the display of the external unit.
- ◆ 20 seconds after the display of "E 99" (that confirms the correct execution of the procedure), the following codes (if four internal units are connected) display in sequence on the display of the external unit:

Display 1	Display 2	Description
00	00	The outdoor unit is communicating correctly with the indoor unit connected to refrigerant pipe A.
01	00	The outdoor unit is communicating correctly with the indoor unit connected to refrigerant pipe B.
02	00	The outdoor unit is communicating correctly with the indoor unit connected to refrigerant pipe C.
03	00	The outdoor unit is communicating correctly with the indoor unit connected to refrigerant pipe D.
04	00	The outdoor unit is communicating correctly with the indoor unit connected to refrigerant pipe E.

At this point it is possible to start the internal units in the desired mode

- If "E 99" doesn't display, the procedure has failed and it is therefore necessary to read ALL the operator's manual before repeating the operating described in steps 1-2-3-4.



Display 1 Display 2 K1 DIP Switch
Rotary Switch

<Display of the external unit>

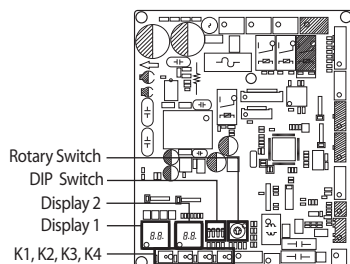
※ During the initial 60 seconds, display 1 shows in sequence : 00 → 01 → 02 → ... 15 → 00...

Setting indoor unit address

Setting indoor unit address manually

- Step 1** Review all the following elements in the installation:
- ◆ Installation site strength
 - ◆ Piping connection tightness to detect any gas leakage
 - ◆ Connection wiring
 - ◆ Heat-resistant insulation of the piping
 - ◆ Drainage
 - ◆ Earthing wire connection

- Step 2** **IMPORTANT!**
Before selecting switch, turn off the system power supply



WARNING

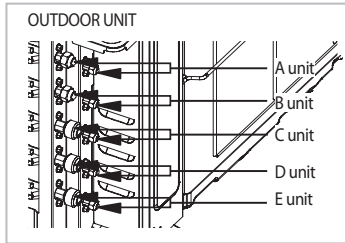
- ◆ When setting the indoor unit address manually, position DIP switch 1 to OFF.
- ◆ Adjust the rotary switch to the number of the connected indoor unit.

- Step 3** Follow of indication reported into table below for indoor unit addressing
» Refer to page 17 for indoor unit address setting.

- Step 4** Turn on the system power supply and waiting for 60 seconds after establishing communication between outdoor and indoor units.
During this phase, the left display of outdoor unit display PCB "DIS01" will count from 00–01–02 to 15.
Established communication the left display will count sequentially:
00–communication with indoor unit A;
01–communication with indoor unit B;
02–communication with indoor unit C;
03–communication with indoor unit D;
04–communication with indoor unit E;

※ In case of Manual address mode, you can do pipe check operation for check whether you connect the pipes correctly or not.
But you need set indoor address switch yourselves.

ROTARY SWITCH "SW02" POSITION ACCORDING TO REFRIGERANT CIRCUIT CONNECTED (0=A; 1=B; 2=C; 3=D; 4=E)



Indoor Unit

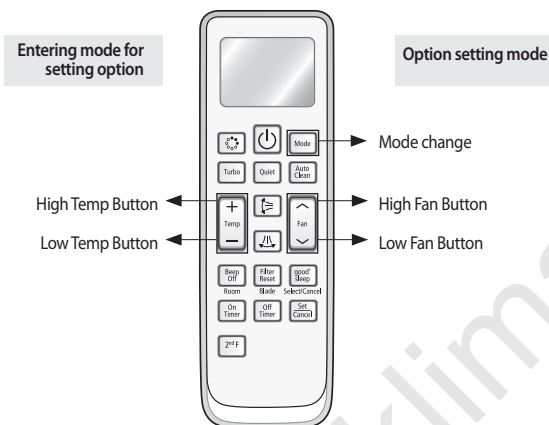


TYPE	PICTURE	MODEL	TO SET ADDRESSING MANUALLY BY ROTARY SWITCH "SW02"
RAC		MH020FV(N/A)** MH023FB** MH026FB(V/N/A)** MH035FB(V/N/A)** MH052FB(V/N/A)**	<p>IT'S HERE!</p>
SLIM 1 WAY CASSETTE		MH026FS** MH035FS**	
MINI 4 WAY CASSETTE		MH030FM** MH035FM** MH052FM**	
SLIM DUCT MSP-DUCT		MH026FE** MH035FE** NJ026LHX** NJ035LHX** MH052FU**	
CONSOLE		MH026FJ** MH035FJ** MH052FJ**	

Setting indoor unit address

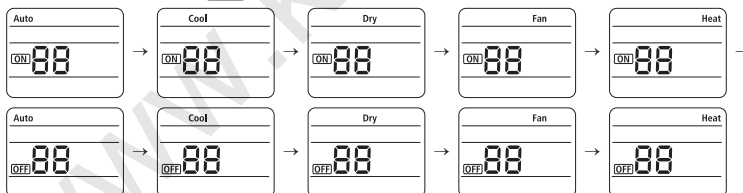
Setting indoor unit address manually

Setting option (AQV**/AJN**/AR**)



◆ Setting option

1. Remove batteries from the remote controller.
2. Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button.
3. Each time you press Low Fan button, 7-seg on left side is increased by "1" and each time you press High Fan button, 7-seg on right side is increased by "1".
4. You press **Mode** button to move to the next setting page.
5. After setting option, press **Mode** button to check whether the option code you input is correct or not.

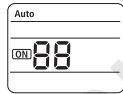
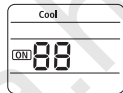

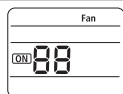
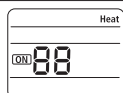
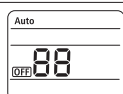
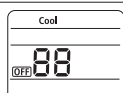
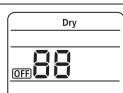
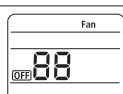
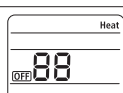


6. Press operation button with the direction of remote control for set.



- SEG1, SEG7, SEG13, SEG19 are not set as page option.
 - Set the SEG1, SEG7 as ON status and SEG13, SEG19 as OFF status.
- EX) Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time.

The procedure of setting option

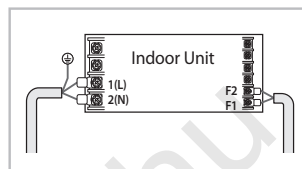
Operation	Indication
<p>* Step 1</p> <p>1. Remove the batteries from the remote controller.</p> <p>2. Insert batteries while pressing High Temp Button and Low Temp Button.</p>	
<p>* Step 2</p> <p>1. Press Low Fan button to enter SEG2 value.</p> <p>2. Press High Fan button to enter SEG3 value.</p>	
<p>* Step 3</p> <p>Press Mode button to be change to Cool mode in the ON status.</p> <p>1. Press Low Fan button to enter SEG4 value.</p> <p>2. Press High Fan button to enter SEG5 value.</p>	
<p>* Step 4</p> <p>Press Mode button to be changed to DRY mode in the ON status.</p> <p>1. Press Low Fan button to enter SEG6.</p> <p>2. Press High Fan button to enter SEG8.</p>	
<p>* Step 5</p> <p>Press Mode button to be changed to FAN mode in the ON status.</p> <p>1. Press Low Fan button to enter SEG9 value.</p> <p>2. Press High Fan button to enter SEG10 value.</p>	
<p>* Step 6</p> <p>Press Mode button to be changed to HEAT mode in the ON status.</p> <p>1. Press Low Fan button to enter SEG11 value.</p> <p>2. Press High Fan button to enter SEG12value</p>	
<p>* Step 7</p> <p>Press Mode button to be changed to AUTO mode in the OFF status.</p> <p>1. Press Fan button to enter SEG14 value.</p> <p>2. Press High Fan button to enter SEG15 value.</p>	
<p>* Step 8</p> <p>Press Mode button to be changed to Cool mode in the OFF status.</p> <p>1. Press Low Fan button to enter SEG16 value.</p> <p>2. Press High Fan button to enter SEG17 value.</p>	
<p>* Step 9</p> <p>Press Mode button to be changed to DRY mode in the OFF status.</p> <p>1. Press Low Fan button to enter SEG18 value.</p> <p>2. Press High Fan button to enter SEG20 value.</p>	
<p>* Step 10</p> <p>Press Mode button to be changed to FAN mode in OFF status</p> <p>1. Press Low Fan button to enter SEG21 value.</p> <p>2. Press High Fan button to enter SEG22 value.</p>	
<p>* Step 11</p> <p>Press Mode button to be changed to HEAT mode in the OFF status</p> <p>1. Press Low Fan button to enter SEG23 value.</p> <p>2. Press High Fan button to enter SEG24 value.</p>	
<p>* Step 12</p> <p>Press Mode button to check whether the option code you entered is correct or not.</p> <p>Press operation button to enter option.</p>	

Setting indoor unit address

Setting indoor unit address manually

Setting an indoor unit address (MAIN/RMC)

1. Check whether power is supplied or not.
- When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel (display) should be connected to an indoor unit to receive option.
3. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
4. Assign an indoor unit address by wireless remote controller.
- The initial setting status of indoor unit ADDRESS (MAIN/RMC) is "0A0000-100000-200000-300000"
- There is no need to assign extra ADDRESS for 1:1 installation between indoor unit and outdoor unit.



Option No. : 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		A single digit of indoor unit	
Remote Controller Display			<div>Auto</div> <div>CON 88</div>		<div>Auto</div> <div>CON 88</div>		<div>Cool</div> <div>CON 88</div>		<div>Cool</div> <div>CON 88</div>		<div>Dry</div> <div>CON 88</div>	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0 1	No Main address Main address setting mode	0~9	100-digit	0~9	10-digit	0~9	A single digit
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE				Setting RMC address				Group channel(*16)		Group address	
Remote Controller Display					<div>Fan</div> <div>CON 88</div>				<div>Heat</div> <div>CON 88</div>		<div>Heat</div> <div>CON 88</div>	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1				0 1	No RMC address RMC address setting mode			RMC1	1~F	RMC2	1~F

※ You must set RMC address setting mode when using the centralized Control .



- When "A"~"F" is entered to SEG4~6, the indoor unit MAIN ADDRESS is not changed.
- If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG4~6.
- If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.

5. The MAIN address is for communication between the indoor unit and the outdoor unit. Therefore, you must set it to operate the air conditioner properly.





Setting installation option

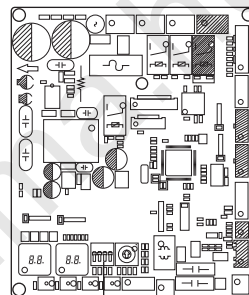
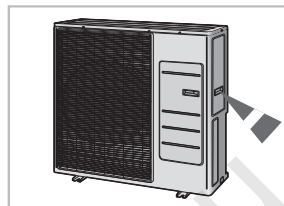
It could take maximum 60 minutes to operate for the protection of the compressor if the outdoor temperature is below -5°C.

Ampere Limit Setting & Changing Procedure



- ◆ Do not adjust the "Ampere Limit Switch(DIP Switch)", if it's not necessary : before modifying it, evaluate the total number of electric and electronics loads consumption and use "Ampere limits switch(DIP Switch)" just as emergency solution or in case the system is anyway oversized compared to real thermal load needed.
- ◆ "Ampere Limit Switch(DIP Switch)" is initially set to the default value (table below).
- ◆ "Ampere Limit Switch(DIP Switch)" is on the PCB of outdoor unit.
- ◆ Contact the authorized service technician or dealer for setting and changing the "Ampere Limit Switch(DIP Switch)".
- ◆ Before changing the "Ampere Limit Switch(DIP Switch)", turn off the main power of the system.

Ampere		Switch Selection	
RJ100F5HX**	Switch	3	4
AJ100FCJS**			
23A		On	On
20A		On	Off
18A		Off	On
16A		Off	Off



DIP Switch
<Outdoor PCB Display>

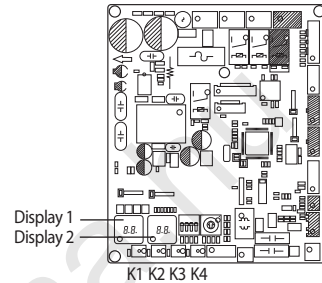
Settings of PCB Display of the Outdoor unit

◆ Key Options of PCB Display

- K1 : pipe checking operation button - K2 : Function button
- K3 : Reset button - K4 : View mode change button

Push \ Key	K1	K2	K3	K4
1	Pipe Checking Operation (Display: 1-5)	Heat Mode Try run (Display: 1-1)	Reset	View mode change
2	-	Refrigerant Charging (Display: 1-2)		
3	-	Cool Mode Try run (Display: 1-3)		
4	-	Pump down (Display: 1-4)		

※ Heat and Cool Mode Try run functions are just For Service Technician



<Display of the external unit>

※ During the initial 60 seconds, display 1 shows in sequence: 00 → 01 → 02 → ...15 → 00...

◆ K4 View mode Display changes









Push	Display Explanation	Push	Display Explanation
0	Present Compressor Frequency	8	Discharge temperature
1	Target Compressor Frequency	9	OLP temperature
2	EEV0 current step	10	Condenser temperature
3	EEV1 current step	11	Outdoor temperature
4	EEV2 current step	12	Running current
5	EEV3 current step	13	Target Discharge temperature
6	EEV4 current step	14	Total capacity of the indoor units
7	Fan RPM (H: high, L: low, Blank: off)	15	Safety Control (just For Service Technician)

Installing transmitter and sub PCB for central control

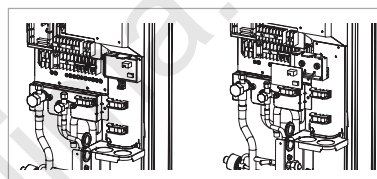
Transmitter installation (optional)

◆ RJ100F5HX** / AJ100FCJ5**

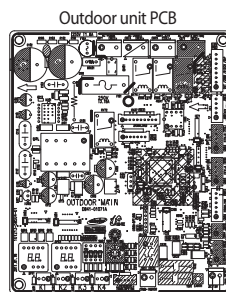
Accessories (Transmitter : MIM-B13B)

Transmitter MAIN	Transmitter SUB	485 Communication Cable	DC Power Cable (12V)	DC Power Cable (5V)	Communication Cable	Cable Tie	Case
							

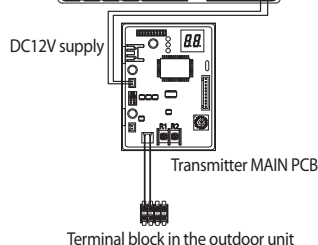
1. Turn the power off and take off the cover of the outdoor units.
2. Fix the case with bolts to the side of the control box referring to the figure on the right side.
In case of FJM outdoor unit, there is not enough space to fix all parts of transmitter. So you may use transmitter main PCB.
3. Attach the transmitter main PCB to the case, then connect F1/ F2 lines, R1/R2 lines which are upper controller communication cables and DC 12V power cables to the interface module referring to the figure on page 13. (Upper controller power should be off.)
4. You must check the position of dip switch on the transmitter's main PCB and the main PCB of MH**/NJ** indoor units. For AQV**/AJN**/AR** indoor units, refer to page 26.
5. Assemble a cover of the outdoor unit and turn the power on.
6. Check the communication status.
7. If you install a transmitter to the outdoor unit, every indoor unit which is connected to the outdoor unit can be controlled simultaneously.
8. Each outdoor unit connected to the same centralized controller has its own transmitter.
9. When using the centralized controller, refer to page 26 for indoor unit setting.



Fix the case with hinges
(Control Box in the outdoor unit)



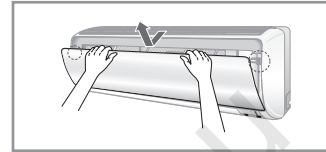
Outdoor unit PCB



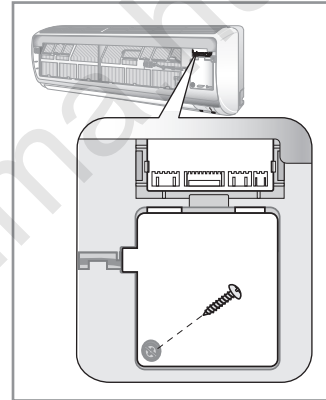
Sub PCB installation (optional)

If indoor unit is AQV**/AR**, install sub PCB.

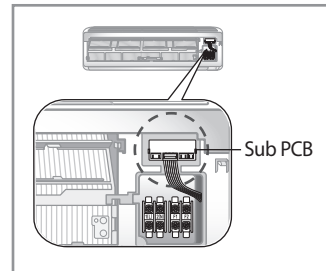
1. Turn the power off and take off the front panel of the indoor unit.



2. Take off the PCB cover.

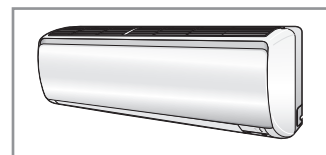


3. Attach the Sub PCB to the right side of the Panel frame.



4. Find the PCB wire, and connect the wire to the Sub PCB as seen in the picture.

5. Connect the wire (remote controller, central remote controller, etc.) to the sub PCB.

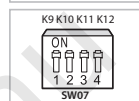
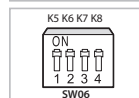
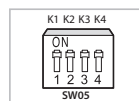


6. Assemble the panel frame and the front panel.

※ The product and accessories may look different from the illustration above depending on the model.

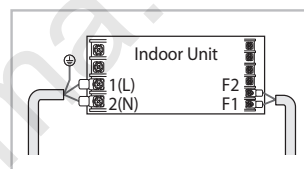
How to use additional function

No.	Function	On	Off	Remark
SW05	K1 External room sensor	Disuse	Use	
	K2 Centralized controller	Disuse	Use	
	K3 Compensate RPM	Standard	Up	Only MH**FS/FU**, NJ**LHX**
	K4 Drain Pump	Disuse	Use	Only MH**FS/FU**, NJ**LHX**
SW06	K5 Indoor Temperature Compensation for Heating Mode	+2°C	+5°C	Only MH**FM**
		+5°C	+2°C	
	K6 Filter Time	1,000h	2,000h	Except MH**FV/FN/FB/FA/FJ**
	K7 Hot Water Coil	Disuse	Use	Only MH**FS/FU**, NJ**LHX**
SW07	K8 -	-	-	
	K9 -	-	-	
	K10 -	-	-	
	K11 External Control	Disuse	Use	
	K12 External Control Output	Thermal ON	Operation ON	



◆ AQP**/AJN**/AR**

- Check whether power is supplied or not.
 - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
- The panel (display) should be connected to an indoor unit to receive option.
- Before installing the indoor unit, assign an option to the indoor unit according to the airconditioning system plan.
 - The default setting of an indoor unit installation option is "02000-100000-200000-300000".
 - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
- Set the indoor unit option by wireless remote controller.
 - When entering address option, connect remote controller receiver.



Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE						Central control			
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		2		0		0		0	Disuse	0	
									1	Use		
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE										Master/Slave	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1		0		0		0		0		0	Slave
											1	Master
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		External control		External control output				Buzzer			
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
			0	Disuse	0	Thermo ON	0	0	Use	0		
			1	On/Off control								
			2	Off control	1	Operation ON						
			3	Window On/ Off control ¹⁾				1	Disuse			
Option	SEG19		SEG20		SEG21		SEG22		SEG23		SEG24	
Explanation	PAGE											
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	3		0		0		0		0		0	

► If you input a number other than 0~4 of the individual control of the indoor unit(SEG20), the indoor is set as "indoor 1".

¹⁾ The window on/off function applies to the following unit

- AJN**/AR**

Test run and final check

Test Run

1. Please do cool mode try-run or heat mode try-run.
 - ◆ Cool mode try-run : Push the [K2] button three times.
 - ◆ Heat mode try-run : Push the [K2] button once.
2. After 12 minutes of stationary condition check each indoor unit air treatment.
 - ◆ Cooling mode (indoor unit check) → Inlet air temp. - Outlet air temp : From 10°K to 12°K (indicative delta T)
 - ◆ Heating mode (indoor unit check) → Outlet air temp. - Inlet air temp : From 11°K to 14°K (indicative delta T)
 - In heating mode, the indoor fan motor can remain off to avoid cold air blown into conditioned space.

Final Check and Explaining operation to the owner

Before leaving the premises on which you have installed the air conditioner, you should explain the following operations to the owner, making reference to appropriate pages in the owner's instruction booklet.

1. How to start and stop the air conditioner.
2. How to select the operating mode and adjust the temperature and fan settings.
3. How to adjust the air flow direction.
4. How to set the timers.
5. How to remove and clean the filters.
 - Once the owner is happy with the basic operations, hand over the owner's instruction booklet and this installation manual for storage in a handy and safe place.

Troubleshooting

The table below give indication about self diagnostic routine. Some of error code requires activities exclusively for Authorise Service Center.

◆ The error indicated on the PCB display of outdoor unit

DISPLAY	EXPLANATION (The error indicated on the PCB display of outdoor unit)	REMARK
E1 01	Communiacton error(indoor unable to receive data)	Check electrical connection and setting
E1 02	Outdoor unit communication error(Abnormal data from indoor unit over 60 packet)	Check electrical connection and setting
E1 21	Indoor unit room temperature sensor error (Open/Short)	
E1 22	Indoor unit heat exchanger in temperature sensor error (Open/Short)	
E1 23	Indoor unit heat exchanger out temperature sensor error (Open/Short)	
E1 28	Indoor unit sensor error-Evaporator pipe in sensor - Self diagnosis	
E1 29	Indoor unit sensor error-Evaporator pipe out sensor - Self diagnosis	
E1 54	Indoor Unit FAN Error	
E1 61	More than two indoor units cool and heat simultaneously	
E1 62	Indoor Unit EEPROM Error	
E1 63	Indoor Unit EEPROM Option Error	
E1 71	EVA-MID BREAK AWAY	
E1 72	EVA-IN BREAK AWAY	
E1 73	EVA-OUT BREAK AWAY	
E1 90	Failure of pipe check operation	Check piping connection and setting
E1 99	No pipe check operation check - occasion : try to operation after the installation through auto addressing mode without pipe check operation.	Check setting
E2 01	The number of Indoor unit mismatched	Check electrical connection and setting
E2 02	Communication error between the outdoor and indoor unit	Check electrical connection and setting
E2 03	Outdoor communication error between main micom and inverter micom	
E2 06	Outdoor communication error between main micom and hub micom	
E2 21	Outside temperature sensor error(Short/Open) - Error level: over 4.9V(-50°C) under 0.4V(93°C)	
E2 37	Condenser temperature sensor error(Short/Open) - Error level: over 4.9V(-50°C) under 0.4V(93°C)	
E2 46	Outdoor unit sensor error - Condenser out sensor(Short/Open) - Self diagnosis	
E2 51	Compressor Discharge temperature sensor error	
E2 61	Compressor discharge sensor detached - Self diagnosis	
E3 20	Compressor OLP sensor error (Short/Open) - Error condition : outdoor temperature under -20°C - Error level : over 4.95V(-30°C) under 0.5V(151°C)	
E3 30	Evaln1 Sensor Short/Open	
E3 31	Evaln2 Sensor Short/Open	
E3 32	Evaln3 Sensor Short/Open	
E3 33	Evaln4 Sensor Short/Open	
E3 34	Evaln5 Sensor Short/Open	

DISPLAY	EXPLANATION (The error indicated on the PCB display of outdoor unit)	REMARK
E3 35	EvaOut1 Sensor Short/Open	
E3 36	EvaOut2 Sensor Short/Open	
E3 37	EvaOut3 Sensor Short/Open	
E3 38	EvaOut4 Sensor Short/Open	
E3 39	EvaOut5 Sensor Short/Open	
E4 01	Outdoor unit freezing(Compressor stop)	check pipe lenght, indoor unit filter, refrigerant leakage/charge and service port
E4 04	Outdoor unit overload - Safety control(Compressor stop)	check pipe lenght, refrigerant leakage/charge
E4 16	Outdoor unit high discharge temperature - Safety control (Compressor stop)	check pipe lenght, refrigerant leakage/charge
E4 19	Outdoor unit EEV open (Stopped indoor unit's) -Self diagnosis	
E4 22	Outdoor unit EEV open (operating indoor unit's) -Self diagnosis	
E4 40	High temperature(over 30°C) of outdoor as heating mode	
E4 41	Low temperature(under -10°C) of outdoor as cooling mode	
E4 58	Outdoor Fan Error	
E4 60	Communication cable mismatched between indoor and outdoor unit	Check electrical connection
E4 61	Inverter compressor starting failure (5 times)	
E4 62	Compressor trip by input current control mode (PFC over current)	
E4 63	Compressor trip by OLP temperature control mode	
E4 64	Over current	
E4 65	Compressor Vlimit Error	
E4 66	DC link Voltage error (under 150V, over 410V)	
E4 67	Abnormal compressor running (Compressor Rotation Error)	
E4 68	Current sensor error	
E4 69	DC link Voltage sensor error	
E4 70	Outdoor unit EEPROM Error	
E4 71	OTP Error	
E4 72	Inverter micom zero-crossing error	
E4 83	Over voltage Error	

SAMSUNG

"EEE Yönetmeliğine Uygundur"
"This EEE is compliant with RoHS"

Product fiche

Energy Labeling Information(AC product)

According to Commission Regulation (EU) No 626/2011

A	Supplier's name	-	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	AR09FSFP*** x 1 + AR12FSFP*** x 1/ AJ040FCJ2EH	AR07FSFP*** x 2/ AJ040FCJ2EH	AR12FSFP*** x 1 + AR18FSFP*** x 1/ AJ050FCJ2EH
C	Sound Power Level (Inside/ Outside)	dBA	55/61	53 / 61	55 / 61
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410A
E	GWP	-	1975	1975	1975
F	SEER	-	6.1	5.7	5.8
G	Energy efficiency class (SEER)	-	A++	A+	A+
H	Q _{ce} ²⁾ (cooling season)	kWh/a	229	243	300
I	P _{designc}	kW	4.0	4.0	5.0
J	SCOP	-	3.9	3.9	3.7
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{he} ³⁾ (heating season)	kWh/a	1077	1076	1395
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	3.0	3.0	3.7
O	P _{designh} (Warmer)	kW	3.6	3.5	4.0
P	P _{designh} (Colder)	kW	-		-
Q	Declared capacity at reference design conditions	kW	3.0	3.0	3.7
R	Assumed backup heating capacity	kW	0	0	0

- 1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [1975]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [1975] times higher than 1 kg of CO₂, over a period of 100 years.
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A	Supplier's name	-	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	AR09F5FP*** x 3/ AJ052FCJ3EH	AR12F5FP*** x 3/ AJ068FCJ3EH	AR09F5FP*** x 4/ AJ070FCJ4EH
C	Sound Power Level (Inside/ Outside)	dBA	54 / 61	55 / 63	54 / 63
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410a
E	GWP	-	1975	1975	1975
F	SEER	-	5.7	6.0	5.6
G	Energy efficiency class (SEER)	-	A+	A+	A+
H	Q _{ce} ²⁾ (cooling season)	kWh/a	317	395	437
I	P _{designc}	kW	5.2	6.8	7.0
J	SCOP	-	3.8	3.9	3.7
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{he} ³⁾ (heating season)	kWh/a	1571	1981	2169
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	4.3	5.5	5.8
O	P _{designh} (Warmer)	kW	4.8	6.3	6.4
P	P _{designh} (Colder)	kW	-	-	-
Q	Declared capacity at reference design conditions	kW	4.3	5.5	5.8
R	Assumed backup heating capacity	kW	0	0	0

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Product fiche

Energy Labeling Information(AC product)

According to Commission Regulation (EU) No 626/2011

A	Supplier's name	-	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	AR09FSFP*** x 2 + AR12FSFP*** x 2/ AJ080FCJ4EH	AR09FSFP*** x 5/ AJ100FCJ5EH	AR12FSFP*** + AR24FSFP***/ AJ100FCJ5EH
C	Sound Power Level (Inside/ Outside)	dBA	55 / 63	54 / 70	60 / 70
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410A
E	GWP	-	1975	1975	1975
F	SEER	-	5.3	6.0	5.5
G	Energy efficiency class (SEER)	-	A	A+	A
H	Q _{ce} ²⁾ (cooling season)	kWh/a	524	578	538
I	P _{designc}	kW	8.0	10.0	8.6
J	SCOP	-	3.7	3.8	3.9
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{he} ³⁾ (heating season)	kWh/a	2180	2806	2761
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	5.8	7.7	7.7
O	P _{designh} (Warmer)	kW	6.4	8.7	8.5
P	P _{designh} (Colder)	kW	-	-	-
Q	Declared capacity at reference design conditions	kW	5.8	7.7	7.7
R	Assumed backup heating capacity	kW	0	0	0

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Energy Labeling Information(AC product)

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A	Supplier's name	-	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	AR12FSSYAWTN x 1 + AR18FSSYAWTN x 1/ AJ050FCJ2EH	AR09FSSYAWTN x 2 + AR12FSSYAWTN x 2/ AJ080FCJ4EH	AJN016NDEHA x 1 + AJN020NDEHA x 2/ AJ052FCJ3EH
C	Sound Power Level (Inside/ Outside)	dBA	59 / 61	58 / 63	47 / 61
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410A
E	GWP	-	1975	1975	1975
F	SEER	-	5.8	5.3	5.7
G	Energy efficiency class (SEER)	-	A+	A	A+
H	Q _{CE} ²⁾ (cooling season)	kWh/a	300	524	320
I	P _{designc}	kW	5.0	8.0	5.2
J	SCOP	-	3.7	3.7	3.8
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{HE} ³⁾ (heating season)	kWh/a	1395	2180	1571
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	3.7	5.8	4.3
O	P _{designh} (Warmer)	kW	4.0	6.4	4.8
P	P _{designh} (Colder)	kW	-	-	-
Q	Declared capacity at reference design conditions	kW	3.7	5.8	4.3
R	Assumed backup heating capacity	kW	0	0	0

- 1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [1975]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [1975] times higher than 1 kg of CO₂, over a period of 100 years.
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Product fiche

Energy Labeling Information(AC product)

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A	Supplier's name	-	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	AJN026NDEHA x 2 + AJN035NDEHA x 2/ AJ080FCJ4EH	AJN052NDEHA x 2/ AJ100FCJ5EH	MH026FSEA x 2 + MH035FSEA x 2/ AJ080FCJ4EH
C	Sound Power Level (Inside/ Outside)	dBA	49 / 63	55 / 70	53 / 63
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410A
E	GWP	-	1975	1975	1975
F	SEER	-	5.3	5.6	5.3
G	Energy efficiency class (SEER)	-	A	A	A
H	Q _{CE} ²⁾ (cooling season)	kWh/a	524	535	524
I	P _{designc}	kW	8.0	8.5	8.0
J	SCOP	-	3.7	3.8	3.7
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{HE} ³⁾ (heating season)	kWh/a	2180	2806	2180
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	5.8	7.7	5.8
O	P _{designh} (Warmer)	kW	6.4	8.7	6.4
P	P _{designh} (Colder)	kW	-	-	-
Q	Declared capacity at reference design conditions	kW	5.8	7.7	5.8
R	Assumed backup heating capacity	kW	0	0	0

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B	Model name (Indoor/Outdoor)	-	NJ026LHXEA x 2 + NJ035LHXEA x 2/ AJ080FCJ4EH	MH052FUEA x 2/ AJ100FCJ5EH	MH020FAEA x 1 + MH020FNEA x 1/ AJ040FCJ2EH
C	Sound Power Level (Inside/ Outside)	dBA	53 / 63	58 / 70	53 / 61
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410A
E	GWP	-	1975	1975	1975
F	SEER	-	5.3	5.6	5.7
G	Energy efficiency class (SEER)	-	A	A	A+
H	Q _{CE} ²⁾ (cooling season)	kWh/a	524	535	243
I	P _{designc}	kW	8.0	8.5	4.0
J	SCOP	-	3.7	3.8	3.9
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{HE} ³⁾ (heating season)	kWh/a	2180	2806	1076
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	5.8	7.7	3.0
O	P _{designh} (Warmer)	kW	6.4	8.7	3.5
P	P _{designh} (Colder)	kW	-	-	-
Q	Declared capacity at reference design conditions	kW	5.8	7.7	3.0
R	Assumed backup heating capacity	kW	0	0	0

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Product fiche

Energy Labeling Information(AC product)

According to Commission Regulation (EU) No 626/2011

A	Supplier's name	-	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	MH035FAEA x 1 + MH052FAEA x 1/ AJ050FCJ2EH	MH026FAEA x 1 + MH035FAEA x 1 + MH026FNEA x 1 + MH035FNEA x 1/ AJ080FCJ4EH	MH035FNEA x 1 + MH052FNEA x 1/ AJ050FCJ2EH
C	Sound Power Level (Inside/ Outside)	dBA	59 / 61	55 / 63	55 / 61
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410A
E	GWP	-	1975	1975	1975
F	SEER	-	5.8	5.3	5.8
G	Energy efficiency class (SEER)	-	A+	A	A+
H	Q _{CE} ²⁾ (cooling season)	kWh/a	300	524	300
I	P _{designc}	kW	5.0	8.0	5.0
J	SCOP	-	3.7	3.7	3.7
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{HE} ³⁾ (heating season)	kWh/a	1395	2180	1395
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	3.7	5.8	3.7
O	P _{designh} (Warmer)	kW	4.0	6.4	4.0
P	P _{designh} (Colder)	kW	-	-	-
Q	Declared capacity at reference design conditions	kW	3.7	5.8	3.7
R	Assumed backup heating capacity	kW	0	0	0

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B	Model name (Indoor/Outdoor)	-	MH035FJEA x 1 + MH052FJEA x 1/ AJ050FCJ2EH	MH026FJEA x 2 + MH035FJEA x 2/ AJ080FCJ4EH	AR12FSSDWUN x 1 + AR18FSSDWUN x 1/ AJ050FCJ2EH
C	Sound Power Level (Inside/ Outside)	dBA	59 / 61	59 / 63	56 / 61
D	Refrigerant name ¹⁾	-	R-410A	R-410A	R-410A
E	GWP	-	1975	1975	1975
F	SEER	-	5.8	5.3	5.8
G	Energy efficiency class (SEER)	-	A+	A	A+
H	Q _{CE} ²⁾ (cooling season)	kWh/a	300	524	300
I	P _{designc}	kW	5.0	8.0	5.0
J	SCOP	-	3.7	3.7	3.7
K	Energy efficiency class (SCOP)	-	A	A	A
L	Q _{HE} ³⁾ (heating season)	kWh/a	1395	2180	1395
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	3.7	5.8	3.7
O	P _{designh} (Warmer)	kW	4.0	6.4	4.0
P	P _{designh} (Colder)	kW	-	-	-
Q	Declared capacity at reference design conditions	kW	3.7	5.8	3.7
R	Assumed backup heating capacity	kW	0	0	0

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A	Supplier's name	-	Samsung Electronics Co., Ltd.	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	AR09FSSSEDWUN x 2 + AR12FSSSEDWUN x 2/ AJ080FCJ4EH	AR12FSSSEDWUN + AR24FSSSEDWUN/ AJ100FCJ5EH
C	Sound Power Level (Inside/ Outside)	dBA	55 / 63	60 / 70
D	Refrigerant name ¹⁾	-	R-410A	R-410A
E	GWP	-	1975	1975
F	SEER	-	5.3	5.5
G	Energy efficiency class (SEER)	-	A	A
H	Q _{CE} ²⁾ (cooling season)	kWh/a	524	538
I	P _{designc}	kW	8.0	8.6
J	SCOP	-	3.7	3.9
K	Energy efficiency class (SCOP)	-	A	A
L	Q _{HE} ³⁾ (heating season)	kWh/a	2180	2761
M	Other heating seasons suitable for use	-	Warmer Season	Warmer Season
N	P _{designh} (Average)	kW	5.8	7.7
O	P _{designh} (Warmer)	kW	6.4	8.5
P	P _{designh} (Colder)	kW	-	-
Q	Declared capacity at reference design conditions	kW	5.8	7.7
R	Assumed backup heating capacity	kW	0	0

- 1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [1975]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [1975] times higher than 1 kg of CO₂, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
- 2) Energy consumption "XYZ" kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
- 3) Energy consumption "XYZ" kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

[ESPAÑOL]		[FRANÇAIS]		[ITALIANO]	
A	Nombre del proveedor	A	Nom du fournisseur	A	Nome del Costruttore
B	Nombre del modelo (unidad interior/exterior)	B	Nom du modèle (intérieur/extérieur)	B	Nome del Modello (Unità Interna/Unità Esterna)
C	Nivel de potencia acústica (interior/exterior)	C	Niveau de puissance acoustique (intérieur/extérieur)	C	Livello di Potenza Sonora (Unità Interna/Unità Esterna)
D	Nombre del refrigerante ¹⁾	D	Nom du fluide frigorigène ¹⁾	D	Tipo di refrigerante ¹⁾
E	GWP	E	PRP	E	GWP
F	SEER	F	RES	F	SEER
G	Clase de eficiencia energética (SEER)	G	Classe d'efficacité énergétique (RES)	G	Classe di efficienza energetica (SEER)
H	Q _{ce} ²⁾ (temporada refrigeración)	H	Q _{ce} ²⁾ (saison froide)	H	Q _{ce} ²⁾ (stagione di raffreddamento)
I	P _{designc}	I	P _{designc}	I	P _{prograffr.}
J	SCOP	J	SCOP	J	SCOP
K	Clase de eficiencia energética (SCOP)	K	Classe d'efficacité énergétique (SCOP)	K	Classe di efficienza energetica (SCOP)
L	Q _{he} ³⁾ (temporada calefacción)	L	Q _{he} ³⁾ (saison chaude)	L	Q _{he} ³⁾ (stagione di riscaldamento)
M	Otras temporadas de calefacción declaradas aptas para funcionar	M	Adapté à d'autres saisons chaudes	M	Altre stagioni per uso in riscaldamento
N	P _{designh} (promedio)	N	P _{designh} (moyenne)	N	P _{progrisc} (Climi Medi)
O	P _{designh} (más cálida)	O	P _{designh} (plus chaud)	O	P _{progrisc} (Climi Miti)
P	P _{designh} (más fría)	P	P _{designh} (plus froid)	P	P _{progrisc} (Climi Freddi)
Q	Capacidad declarada en las condiciones de diseño de referencia	Q	Capacité déclarée à des conditions de conception de référence	Q	Potenzialità dichiarata per le condizioni di progetto di riferimento
R	Capacidad de calefacción de reserva asumida	R	Capacité de chauffage d'appoint supposée	R	Potenzialità di backup in riscaldamento stimata

Warmer season

[ESPAÑOL]: Temporada mas calida

[FRANÇAIS]: Saison plus chaude

[ITALIANO]: Stagione piu calda

Product fiche

[PORTUGUÊS]		[DEUTSCH]		[ΕΛΛΗΝΙΚΑ]	
A	Nome do fornecedor	A	Name des Lieferanten	A	Επωνυμία προμηθευτή
B	Nome do modelo (interior/ exterior)	B	Modellbezeichnung (Innen-/Außengerät)	B	Ονομασία μοντέλου (εσωτερικού χώρου/εξωτερικού χώρου)
C	Nível de potência sonora (interior/exterior)	C	Schallleistungspegel (Innen/Außen)	C	Στάθμη έντασης θορύβου (Εντός/Εκτός)
D	Nome do fluido refrigerante ¹⁾	D	Name des Kältemittels ¹⁾	D	Ονομασία ψυκτικού μέσου ¹⁾
E	PAG	E	Treibhauspotenzial (Global Warming Potential, GWP)	E	Δυναμικό Παγκόσμιας Θέρμανσης (GWP)
F	SEER	F	Arbeitszahl im Kühlbetrieb (SEER)	F	Λόγος Εποχιακής Ενεργειακής Επάρκειας (SEER)
G	Classe de eficiência energética (SEER)	G	Energieeffizienzklasse (SEER)	G	Κλάση ενεργειακής επάρκειας (SEER)
H	Q _{CE} ²⁾ (estação de arrefecimento)	H	Q _{CE} ²⁾ (Kühlperiode)	H	Q _{CE} ²⁾ (εποχή ψύξης)
I	P _{designc}	I	P _{designc}	I	P _{designc}
J	SCOP	J	Arbeitszahl im Heizbetrieb (SCOP)	J	Εποχιακός Συντελεστής Απόδοσης (SCOP)
K	Classe de eficiência energética (SCOP)	K	Energieeffizienzklasse (SCOP)	K	Κλάση ενεργειακής επάρκειας (SCOP)
L	Q _{HE} ³⁾ (estação de aquecimento)	L	Q _{HE} ³⁾ (Heizperiode)	L	Q _{HE} ³⁾ (εποχή θέρμανσης)
M	Outras estações de aquecimento utilizáveis	M	Weitere geeignete Heizperioden	M	Κατάλληλο για χρήση σε άλλες εποχές θέρμανσης
N	P _{designh} (média)	N	P _{designh} (mittel)	N	P _{designh} (μέσο)
O	P _{designh} (mais quente)	O	P _{designh} (wärmer)	O	P _{designh} (θερμότερο)
P	P _{designh} (mais fria)	P	P _{designh} (kälter)	P	P _{designh} (ψυχρότερο)
Q	Capacidade declarada tendo em conta as condições de projecto de referência	Q	Ausgewiesene Leistung bei Bezugs- Auslegungsbedingungen	Q	Δηλωθείσα δυναμικότητα στις συνθήκες σχεδίασης αναφοράς
R	Capacidade eléctrica de apoio para aquecimento assumida	R	Leistung eines angenommenen Ersatzheizgeräts	R	Δεδομένη εφεδρική δυναμικότητα θέρμανσης

Warmer season

[PORTUGUÊS]: Estação mais quente

[DEUTSCH]: Wärmere Jahreszeit

[ΕΛΛΗΝΙΚΑ]: Θερμότερες εποχές

[ESPAÑOL]

- 1) Las fugas de refrigerante contribuyen al cambio climático. Cuanto mayor sea el potencial de calentamiento global (GWP) de un refrigerante, más contribuirá a dicho calentamiento su vertido a la atmósfera. Este aparato contiene un líquido refrigerante con un GWP igual a [1975].
Esto significa que, si pasara a la atmósfera 1 kg de este líquido refrigerante, el impacto en el calentamiento global sería, a lo largo de 100 años, [1975] veces mayor que si se vertiera 1 kg de CO₂.
Nunca intente intervenir en el circuito del refrigerante ni desmontar el aparato usted mismo; consulte siempre a un profesional.
- 2) Consumo de energía "XYZ" kWh/año, según los resultados obtenidos en ensayos estándar.
El consumo de energía real depende de las condiciones de uso del aparato y del lugar en el que esté instalado.
- 3) Consumo de energía "XYZ" kWh/año, según los resultados obtenidos en ensayos estándar.
El consumo de energía real depende de las condiciones de uso del aparato y del lugar en el que esté instalado.

[FRANÇAIS]

- 1) La fuite de fluide frigorigène contribue au changement de climat. Le fluide frigorigène avec un potentiel de réchauffement planétaire (PRP) plus bas contribue moins au réchauffement planétaire qu'un fluide frigorigène avec un PRP plus haut, s'il s'échappe dans l'atmosphère. Cet appareil contient un fluide frigorigène avec un PRP égal à [1975].
Cela signifie que si 1 kg de ce fluide frigorigène s'échappe dans l'atmosphère, l'impact sur le réchauffement planétaire serait de [1975] fois plus haut qu'1 kg de CO₂, sur une période de 100 ans.
N'essayez jamais d'interférer avec le circuit de fluide frigorigène ou de démonter le produit vous-même et demandez toujours conseil à un professionnel.
- 2) Consommation énergétique "XYZ" kWh par an, basée sur des résultats de tests standard.
La consommation énergétique réelle dépend de la méthode d'utilisation de l'appareil et de sa situation géographique.
- 3) Consommation énergétique "XYZ" kWh par an, basée sur des résultats de tests standard.
La consommation énergétique réelle dépend de la méthode d'utilisation de l'appareil et de sa situation géographique.

[ITALIANO]

- 1) Le fughe di refrigerante hanno impatto sull'ambiente. In caso di fughe in atmosfera i refrigeranti con potenziale di riscaldamento planetario (GWP) più basso contribuiscono al contenimento del riscaldamento della Terra. Questo apparecchio contiene un refrigerante caratterizzato da un GWP pari a 1975.
Ciò significa che la dispersione in atmosfera di 1 kg di questo refrigerante nell'arco di un secolo ha un impatto di 1975 volte maggiore di quello della dispersione di 1 kg di CO₂.
Occorre evitare nel modo più assoluto di manomettere o di smontare autonomamente il circuito frigorifero in quanto tali operazioni devono essere obbligatoriamente svolte da personale qualificato.
- 2) Consumo di energia di "XYZ" kWh annui, riferiti ai risultati dei test eseguiti alle condizioni standard.
Il consumo di energia effettivo dipende comunque dalla modalità e dal luogo di funzionamento dell'apparecchio.
- 3) Consumo di energia di "XYZ" kWh annui, riferiti ai risultati dei test eseguiti alle condizioni standard.
Il consumo di energia effettivo dipende comunque dalla modalità e dal luogo di funzionamento dell'apparecchio.

Product fiche

[PORTUGUÊS]

- 1) A fuga de fluido refrigerante contribui para as alterações climáticas. Os fluidos refrigerantes com menor potencial de aquecimento global (PAG) contribuem menos para o aquecimento global do que os fluidos refrigerantes com maior PAG, em caso de fuga para a atmosfera. Este aparelho contém um fluido refrigerante com um PAG igual a [1975].
Isto significa que, se ocorrer uma fuga de 1 kg deste fluido refrigerante para a atmosfera, o seu impacto no aquecimento global será [1975] vezes mais elevado do que o de 1 kg de CO₂, durante um período de 100 anos. Nunca tome a iniciativa de intervir no circuito do fluido refrigerante ou de desmontar este produto; recorra sempre a um profissional.
- 2) Consumo de energia "XYZ" kWh por ano, com base nos resultados do teste normalizado. O valor real do consumo de energia dependerá do modo de utilização do aparelho e da sua localização.
- 3) Consumo de energia "XYZ" kWh por ano, com base nos resultados do teste normalizado. O valor real do consumo de energia dependerá do modo de utilização do aparelho e da sua localização.

[DEUTSCH]

- 1) Kältemittelverlust trägt zum Klimawandel bei. Kältemittel mit niedrigerem Treibhauspotenzial (GWP) tragen im Falle eines Entweichens in die Atmosphäre in geringerem Maße zur globalen Erderwärmung bei als Kältemittel mit höherem GWP. Dieses Gerät enthält ein Kältemittel mit einem GWP von [1975].
Dies bedeutet, dass beim Entweichen von 1 kg dieses Kältemittels in die Atmosphäre die Auswirkungen auf die globale Erderwärmung - über einen Zeitraum von 100 Jahren - [1975] Mal höher wäre als bei 1 kg freigesetztem CO₂.
Versuchen Sie niemals selbst, den Kühlkreislauf zu unterbrechen oder das Gerät auseinanderzubauen. Wenden Sie sich stets an die entsprechenden Fachleute.
- 2) Energieverbrauch von „XYZ“ kWh pro Jahr, ausgehend von Standardtestergebnissen.
Der tatsächliche Energieverbrauch hängt von der Art der Verwendung sowie dem Aufstellungsort des Geräts ab.
- 3) Energieverbrauch von „XYZ“ kWh pro Jahr, ausgehend von Standardtestergebnissen.
Der tatsächliche Energieverbrauch hängt von der Art der Verwendung sowie dem Aufstellungsort des Geräts ab.

[ΕΛΛΗΝΙΚΑ]

- 1) Η διαρροή ψυκτικού συμβάλλει στην κλιματική αλλαγή. Το ψυκτικό μέσο με το χαμηλότερο Δυναμικό Παγκόσμιας Θέρμανσης (GWP) θα συμβάλλει λιγότερο στην παγκόσμια θέρμανση σε σύγκριση με ένα ψυκτικό με υψηλότερο GWP, εάν υπάρξει διαρροή στην ατμόσφαιρα. Αυτή η συσκευή περιέχει ψυκτικό υγρό με GWP ίσο με [1975].
Αυτό σημαίνει ότι, εάν διαρρεύσει στην ατμόσφαιρα 1 kg αυτού του ψυκτικού υγρού, η επίδραση στην παγκόσμια θέρμανση θα είναι [1975] υψηλότερη από 1 kg CO₂, σε χρονική περίοδο 100 ετών.
Ποτέ μην επιχειρείτε να κάνετε οι ίδιοι παρεμβάσεις στο κύκλωμα του ψυκτικού υγρού ή να αποσυναρμολογείτε οι ίδιοι το προϊόν και να ρωτάτε πάντοτε έναν επαγγελματία.
- 2) Κατανάλωση ενέργειας "XYZ" kWh το χρόνο, με βάση τα τυπικά αποτελέσματα των ελέγχων.
Η πραγματική κατανάλωση ενέργειας θα εξαρτηθεί από τον τρόπο χρήσης της συσκευής και το πού βρίσκεται.
- 3) Κατανάλωση ενέργειας "XYZ" kWh το χρόνο, με βάση τα τυπικά αποτελέσματα των ελέγχων.
Η πραγματική κατανάλωση ενέργειας θα εξαρτηθεί από τον τρόπο χρήσης της συσκευής και το πού βρίσκεται.

Memo

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